

Assignment

Date _____ Period _____

State if the given functions are inverses.

1) $h(x) = -2x - 6$

$$f(x) = \frac{-6 - x}{2}$$

3) $g(x) = \frac{x+2}{3}$

$$f(x) = 3x - 2$$

5) $f(x) = -4 + \frac{1}{2}x$

$$h(x) = x - 2$$

7) $f(x) = 3x - 2$

$$g(x) = \frac{1}{3}x + \frac{2}{3}$$

9) $f(x) = -\frac{1}{2}x + \frac{1}{2}$

$$h(x) = 3 + \frac{1}{2}x$$

11) $g(x) = x + 3$

$$f(x) = x - 3$$

2) $f(x) = \frac{2-x}{2}$

$$g(x) = -2x + 2$$

4) $h(x) = 6x - 4$

$$f(x) = -x + 5$$

6) $f(x) = \frac{7}{3}x - \frac{19}{3}$

$$g(x) = \frac{3}{7}x + \frac{19}{7}$$

8) $f(x) = \frac{x-5}{9}$

$$g(x) = 9x + 5$$

10) $f(x) = \frac{-25+6x}{5}$

$$g(x) = \frac{5x+25}{6}$$

12) $h(x) = -x - 2$

$$f(x) = -x - 2$$

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1) $h(x) = -2x - 6$ **Yes**

$$f(x) = \frac{-6 - x}{2}$$

3) $g(x) = \frac{x+2}{3}$ **Yes**

$$f(x) = 3x - 2$$

5) $f(x) = -4 + \frac{1}{2}x$ **No**

$$h(x) = x - 2$$

7) $f(x) = 3x - 2$ **Yes**

$$g(x) = \frac{1}{3}x + \frac{2}{3}$$

9) $f(x) = -\frac{1}{2}x + \frac{1}{2}$ **No**

$$h(x) = 3 + \frac{1}{2}x$$

11) $g(x) = x + 3$ **Yes**

$$f(x) = x - 3$$

2) $f(x) = \frac{2-x}{2}$ **Yes**

$$g(x) = -2x + 2$$

4) $h(x) = 6x - 4$ **No**

$$f(x) = -x + 5$$

6) $f(x) = \frac{7}{3}x - \frac{19}{3}$ **Yes**

$$g(x) = \frac{3}{7}x + \frac{19}{7}$$

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$$g(x) = 9x + 5$$

10) $f(x) = \frac{-25+6x}{5}$ **Yes**

$$g(x) = \frac{5x+25}{6}$$

12) $h(x) = -x - 2$ **Yes**

$$f(x) = -x - 2$$